

**Notice of Allowability**

Application No.

10/085,790

Examiner

Robert Sellers

Applicant(s)

ORKIN ET AL.

Art Unit

1712

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the election filed 30 October 2003.
2. ☒ The allowed claim(s) is/are 1-9 and 12-18.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- \* Certified copies not received: \_\_\_\_\_.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
  - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No. \_\_\_\_\_.
  - (b) ☐ including changes required by the proposed drawing correction filed \_\_\_\_\_, which has been approved by the Examiner.
  - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1 <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                 |
| 2 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 6 <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No. <u>1103</u> . |
| 3 <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No. <u>10/28/02</u> | 7 <input checked="" type="checkbox"/> Examiner's Amendment/Comment                         |
| 4 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material                     | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance        |
|  | 9 <input type="checkbox"/> Other   |

Robert Sellers  
Primary Examiner  
Art Unit: 1712

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Todd E. Garabedian on November 19, 2003.

The application has been amended as follows:

Change the title to: - -LOW-FRICTION CHROMATE-FREE COATING OF EPOXY RESINS AND SULFONYLDIANILINE--.

Cancel claims 10, 11 and 19-22.

The following is an examiner's statement of reasons for allowance:

The closest prior art of Rinde et al. (col. 8, Table 1) shows a coating prepared from 25-60% by weight (col. 2, lines 25-32) of a mixture of a bisphenol A diglycidyl ether and approximately 10% of 4-glycidyloxy-N,N-diglycidyl aniline (i.e. triglycidyl aminophenol) with from 5-25% by weight of a blend of an aromatic amine and a polyamideamine. The claimed proportions of bisphenol A diglycidyl ether and 4-glycidyloxy-N,N-diglycidyl aniline within an amount of the composition of from about 10 to about 30 wt% is not recited. There is no motivation to adjust the epoxy resin mixture of Rinde et al. containing a predominant level of bisphenol A diglycidyl ether to the claimed relative contents of each epoxy resin.

Orkin et al. and Nazaryan et al. are directed to the claimed coatings with the presence of from 3-7 wt% of strontium chromate which is precluded by the claimed composition being "substantially free of chromate" that denotes a quantity of less than 0.01 wt% according to page 6, lines 15-17 of the specification.

Japanese Patent No. 3-192182 espouses an adhesive derived from triglycidyl aminophenol, bisphenol A diglycidyl ether and 4,4'-sulfonyldianiline (i.e. 4,4-diaminodiphenyl sulfone). The claimed concentration of 4,4-sulfonyldianiline is not recited, nor is there any motivation to increase the exemplified content of 8.4 wt% to within the claimed limits of from about 20 to about 40 wt%.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sato et al. (col. 4, lines 64-68) and PCT Publication No. WO 85/00823 teach the advantages of diaminodiphenyl sulfone as an epoxy resin curing agent.

Japanese Patent No. 3-2257, Moyle et al. (col. 10, lines 35-47), Morita et al. (col. 6, line 5, 9-11 and 25-29), Hirokawa et al. (col. 2, lines 54-58 and col. 3, lines 8-10) and European Patent No. 687,715 ((col. 5, lines 28-30 and 44-49) set forth polytetrafluoroethylene powder as a lubricant and silica as additives for epoxy resin lubricant formulations.

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Monday to Friday from 9:30 to 6:00 EST



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11/19/03